State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-638 Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year Ford Motor Company exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: TFM2.0VJG2HK <u>Displacement</u>: 2.0 Liters (122 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Warm-Up Three Way Catalytic Converter Three Way Catalytic Converter Heated Oxygen Sensors (two) Exhaust Gas Recirculation Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The TLEV certification exhaust emission standards for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	<u>Formaldehyde</u>	Carbon Monoxide (20°F)
50,000	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 1996 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are (Values in parentheses are actual certification values before rounding off.):

<u>Miles</u>	Non-Methane Organic Gas	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.069	0.8	0.1	0.000 (0.00049	
100,000	0.074	0.9	0.1	0.000 (0.00049	

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.1) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this $\frac{27}{2}$ day of July 1995.

R. B. Summerfield Assistant Division Chief Mobile Source Division

Manufacturer:	Ford Motor Comp	any	Exhau	ıst Eng	ine Family:	TFM2.0VJG2H	K
Evap Standard:	50K <u>X</u> Us	seful Life with	R/L		Evap Family:	: TFM1065BY	PAB
Exhaust Std: T	ier 0 Tier 1	TLEV X LE	v u	LEV _	ZEV; EF	A Tier 0	Tier 1
Vehicle Class(e	s): PC X LDT	1 LDT2 _	_ MDV	1 _ M	DV2 MDV	3 _ MDV4 _	MDV5 _
Single Cert Std	for Multi-Class E	ng Fam: N	/ <u>A</u> (spe	ecify N/	A, LDT1, MD	V1, MDV2, MC)V3, MDV4)
Exh Cert Fuel(s	s): Indo Ph2 M85 CNG	X Diesel: LPG O	13 CC ther (sp	R 2282 pecify)	or 40 CF	R 86.113-90 _	_ or -94
Fuel Type(s):	Dedicated FI	ex-Fuel C LPG	ual-Fue Other	el G (specif	iasoline <u>X</u> y)	Diesel M8	5 <u></u>
Hybrid: Type	A B C _	, APU Cyc	de (e.g.	., Otto,	Diesel, Turbi	ine)	
Engine Config	· 	Liter (CID):					
Engine: Front_	X Mid Rea	r Driv	e: FWI) <u>X</u> F	WD 4W[D-FT 4WD-	Pi
Exhaust ECS	& Special Feature	es: SFI/HO2	S/EGR/	TWC/M	/U-TWC		
(USB applevi	ations per SAE J	1930, Sep 9	''				
Engine Code	Vehicle Models	1300, Och O	ETW			EGR System Part No.	Catalyst Part No.
Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No.	System	Part No.
Engine Code (California)	Vehicle Models	Trans. Type	ETW		Ignition (PCM)	System Part No.	Part No.
Engine Code (California) 62FSDM0N	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA 6.2*1 5.8*2	Ignition (PCM) Part No. Distributer: FSB9 ECU:	System Part No.	Part No.
Engine Code (California) 62FSDM0N A/C 62FSDM0A	Vehicle Models Probe	Trans. Type A-Automatic M-Manual M5	5000	6.2°1 5.8°2 5.5°3	Ignition (PCM) Part No. Distributer: FSB9 ECU:	System Part No.	Part No.

ENGINE FAMILY: TFM2.0VJG2HK ISSUED: 5/26/95

REVISED:

^{*1} P195/65R14

⁷ P205 55815 with LX fasca

^{1 25553:5} em SE fascia

Manufacturer:	Ford Motor Com	pany	Exha	iust En	gine Family:	TFM2.0VJG2F	1K
Evap Standard	: 50K <u>X</u> U	Jseful Life wit	h R/L _	 _	Evap Family	: TFM1065BY	PAB
Exhaust Std:	Tier 0 Tier 1 _	_ TLEV <u>X</u> LE	٤٧ ل	JLEV _	_ ZEV ; E	PA Tier 0	Tier 1
Vehicle Class(es): PC X LD	T1 _ LDT2	MD'	V1 N	MDV2 _ MDV	/3 MDV4	. MDV5
Single Cert Sto	d for Multi-Class	Eng Fam: <u>N</u>	<u>I/A</u> (sp	ecify N	I/A, LDT1, MC	V1, MDV2, MI	DV3, MDV4)
Exh Cert Fuel(s): Indo Ph2 M85 CNG	X Diesel	: 13 Co Other (s	CR 228 specify)	or 40 Cl	R 86.113-90	or -94
1	Dedicated F	LPG	Other	(spec			
Hybrid: Type	A B C _	, APU Cy	cle (e.g	J., Otto,	, Diesel, Turbi	ine)	
Engine Config		Liter (CID)					
	X Mid Rea	ſ.	2 \			D-FT 4WD-	PT
Exhaust ECS (Use abbrev	& Special Featur iations per SAE	es: <u>SFI/HO2</u>	S/EGR	/TWC/\	<u>wu-TWC</u>		
	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	(FOIVI)	O y Storii	Catalyst Part No.
(California)		IAI-IAIAI IOAI				<u> </u>	
62FSDA1N	Probe	L4	3125	6.2 ^{*1} 5.8 ^{*2} 5.5 ^{*3}	Distributer: FSB9 ECU: FSC8	FS56	FSC5 B6CK
62FSDA1A	Probe	L4	3125	6.8 ^{*1} 6.4 ^{*2} 6.0 ^{*3}			

ENGINE FAMILY: TFM2.0VJG2HK ISSUED: 8/3/95 REVISED:

^{*1} P195/65R14 *2 P205/55R15 with LX fascia

^{*3} P205/55R15 with SE fascia

Manufacturer:	Ford Motor Con	npany	Exh	aust Er	ngine Family:	TFM2.0VJG	2HK
Evap Standard	d: 50K <u>X</u> 1	Useful Life w	ith R/L _		Evap Famil	y: TFM1065	BYPAB
Exhaust Std:	Tier 0 Tier 1 _	_ TLEV <u>X</u> I	LEV l	JLEV _	_ ZEV ; E	PA Tier 0	Tier 1
Vehicle Class(es): PC X LD	T1 _ LDT2	MD	V1 _ I	MDV2 MD	V3 MDV4	MDV5
Single Cert St	d for Multi-Class	Eng Fam: _	<u>N/A</u> (sp	oecify N	N/A, LDT1, M	DV1, MDV2,	MDV3, MDV4)
Exh Cert Fuel	(s): Indo Ph2 M85 CN0	2 <u>X</u> Diese 3 _ LPG _	el: 13 C Other (s	CR 228 specify)	32 or 40 C	FR 86.113-9	0 or -94
Fuel Type(s):	Dedicated F	Flex-Fuel LPG	Dual-Fu _ Other	ıel r (spec	Gasoline <u>X</u> ify)	Diesel M	185 <u> </u>
Hybrid: Type	A B C	, APU C	ycle (e.g	g., Otto	, Diesel, Turb	oine)	
Engine Config): <u>1-4</u>	Liter (CID): <u>2.0 (</u>	121.5)			
	X Mid Rea					D-FT 4W	D-PT
Exhaust ECS	& Special Featur	res: <u>SFI/HO</u>	25/EGR	/TWC/\	WU-TWC		
(Use apprev	iations per SAE	J 1930, 3ep :	71)				
Engine Code	Vehicle Models		ETW	DPA	Ignition (PCM) Part No.	EGR System Part No.	
•		Trans. Type A-Automatic M-Manual	ETW		Part No.	Part No.	Part No.
Engine Code	Vehicle Models	Trans. Type	ETW	6.2 ^{*1} 5.8 ^{*2}	Part No.	Part No.	
Engine Code (California)	Vehicle Models Probe	Trans. Type A-Automatic M-Manual	ETW	6.2 ^{*1} 5.8 ^{*2}	Part No. Distributer: FSB9 ECU:	Part No.	Part No.
Engine Code (California) 62FSDM1N	Vehicle Models Probe	Trans. Type A-Automatic M-Manual M5	3000	6.2 ^{*1} 5.8 ^{*2} 5.5 ^{*3} 6.8 ^{*1} 6.4 ^{*2}	Part No. Distributer: FSB9 ECU:	Part No.	Part No.
Engine Code (California) 62FSDM1N	Vehicle Models Probe	Trans. Type A-Automatic M-Manual M5	3000 3000	6.2*1 5.8*2 5.5*3 6.8*1 6.4*2 6.0*3 6.2*1 5.8*2	Part No. Distributer: FSB9 ECU: FSC7 Distributer: FSB9 ECU:	Part No.	Part No.

ENGINE FAMILY: TFM2.0VJG2HK ISSUED: 8/3/95 REVISED:

20.09.17.02 - 3

^{*1} P195/65R14 *2 P205/55R15 with LX fascia

^{*3} P205/55R15 with SE fascia

Manufacturer:	Ford Motor Com	npany	Exha	aust En	gine Family:	TFM2.0VJG2H	НK
Evap Standard	1: 50K <u>X</u> l	Jseful Life wit	h R/L _		Evap Family	: TFM1065BY	PAB
Exhaust Std:	Tier 0 Tier 1 _	_ TLEV <u>X</u> LI	EV _ L	JLEV _	_ZEV ; EI	PA Tier 0	Tier 1
Vehicle Class(es): PC X LD	T1 LDT2	_ MD'	V1 _ I	MDV2 MDV	3 <u> </u>	MDV5
Single Cert Sto	d for Multi-Class	Eng Fam: <u>N</u>	<u>I/A</u> (sp	ecify N	I/A, LDT1, MC	V1, MDV2, MI	DV3, MDV4)
Exh Cert Fuel((s): Indo Ph2 M85 CNG	<u>X</u> Diesel LPG _ C	: 13 Co Other (s	CR 228 specify)	32 or 40 Cl	R 86.113-90	_ or -94
Fuel Type(s):	Dedicated F	Flex-Fuel [LPG	Oual-Fu Other	el ·	Gasolin e <u>X</u> ify)	Diesel M8	5 <u> </u>
Hybrid: Type	A B C _	, APU Cy	cle (e.g	., Otto	, Diesel, Turbi	ne)	
_	: <u>I-4</u>						•
Engine: Front	X Mid Rea	ar Driv	e: FW	D <u>X</u>	RWD 4WC)-FT 4WD-	PT
Exhaust ECS (Use abbrevi	& Special Featur lations per SAE	res: <u>SFI/HO2</u> J1930, Sep 9	S/EGR/ 1)	TWC/	<u>wu-twc</u>		
Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition	EGR	Catalyst
(California)		A-Automatic M-Manual			(PCM) Part No.	System Part No.	Part No.
62FSDA3N	Probe	L4	3125	6.2 ^{*1} 5.8 ^{*2}	FSB9	FS56	FSC5 B6CK
				5.5 ^{*3}	ECU: FSC8		Book .

ENGINE FAMILY: TFM2.0VJG2HK ISSUED: 8/7/95 REVISED:

^{*1} P195/65R14 *2 P205/55R15 with LX fascia *3 P205/55R15 with SE fascia

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: TFM2.0VJG2HK
Evap Standard: 50K X Useful Life with R/L Evap Family: TFM1065BYPAB
Exhaust Std: Tier 0 _ Tier 1 _ TLEV X LEV _ ULEV _ ZEV _ ; EPA Tier 0 _ Tier 1
Vehicle Class(es): PC X LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5
Single Cert Std for Multi-Class Eng Fam: <u>N/A</u> (specify N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
Exh Cert Fuel(s): Indo Ph2 <u>X</u> _ Diesel: 13 CCR 2282 or 40 CFR 86.113-90 or -94 M85 CNG LPG Other (specify)
Fuel Type(s): Dedicated Flex-Fuel Dual-Fuel Gasoline X_ Diesel M85 CNG LNG LPG Other (specify)
Hybrid: Type A B C, APU Cycle (e.g., Otto, Diesel, Turbine)
Engine Config: <u>1-4</u> Liter (CID): <u>2.0 (121.5)</u>
Engine: Front_X_Mid Rear Drive: FWD_X_RWD 4WD-FT 4WD-PT
Exhaust ECS & Special Features: <u>SFI/HO2S/EGR/TWC/WU-TWC</u> (Use abbreviations per SAE J1930, Sep 91)

Engine Code	Vehicle Models	Trans. Type A-Automatic		DPA	Ignition (PCM)	EGR System	Catalyst
(California)		M-Manual			Part No.	Part No.	Part No.
62FSDM2N	Probe	M5	3000	6.2 ¹ 5.8 ² 5.5 ³	Distributer: FSB9 ECU: FSC7	FS56	FSC5 B6CK
62FSDM2A	Probe	M5	3000	6.8 ^{*1} 6.4 ^{*2} 6.0 ^{*3}			
62FSDA4N	Probe	L4	3125	6.2 ^{*1} 5.8 ^{*2} 5.5 ^{*3}	Distributer: FSB9 ECU: FSC8		
62FSDA4A	Probe	L4	3125	6.8 ¹¹ 6.4 ¹² 6.0 ¹³			

ENGINE FAMILY: TFM2.0VJG2HK ISSUED: 11/17/95

REVISED:

¹¹ P195/65R14 ¹² P205/55R15 with LX fascia ³ P205/55R15 with SE fascia